

Declaration of Performance

(according to Regulation EU No 305/2011)

Ref. TST-Celsius355-NH

**Hot finished (normalised) structural hollow sections
produced from fine grain steel
Grade S355NH / 1.0539 according EN 10210-1**

Structural fabrications in accordance with EN 1090, when supplied with 3.1 certification to EN 10204 containing product identification details.

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System of assessment and verification of constancy of performance of the product
System 2+

Notified factory production control certification body No. 0038 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment, and evaluation of factory production control and issued the certificate of conformity of the factory production control

Notified Body
Lloyds Register Verification Limited
71 Fenchurch Street, London, EC3M 4BS
Tel :+44 (0)207 423 2428
Email : ecdirectives@lr.org
Website : www.lr.org




Remco Blaauw – Director Operations, Tubes Europe
Tata Steel UK Limited

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Essential characteristic	Performance		Harmonised technical specification
Tolerances on dimensions and shape	Round, square, rectangular and elliptical hollow sections		In accordance with EN 10210-2: 2006
Yield strength	Nominal thickness (mm)	Values Min (MPa)	EN10210-1 2006
	>	<=	
	16	40	
	40	65	
Tensile strength	Nominal thickness (mm)	Values (MPa)	
	<=65	min max	
		470 630	
Elongation	Nominal thickness (mm)	Values min (%)	
	<=65	22	
longitudinal		20	
	transverse		
Impact strength (longitudinal)	Grade	Nom. Thk. (mm)	Impact Value (J) at Test Temp (°C)
	NH	<=65	40J at - 20°C
Weldability (CEV)	Nominal thickness (mm)	Values max (%)	
	>	<=	
	16	65	0.43
			0.45
Durability	Nominal thickness (mm)	Composition (cast) (max. unless otherwise shown)	
		C	0.20
		Si	0.50
		Mn	0.90 – 1.65
		P	0.035
		S	0.030
		Nb	0.050
		V	0.12
		Al	0.020 min.
		Ti	0.03
		Cr	0.30
Ni	0.50		
Mo	0.10		
Cu	0.35		
N	0.020		
		GF deoxidation*	

Notes: *GF – Fully killed steel with fine grain composition

 0038
Tata Steel Tubes Europe PO Box 101, Weldon Road Road Corby, NN17 5UA, UK 13 Ref. TST-Celsius355-NH
EN 10210-1: 2006 Hot finished (normalised) structural hollow sections produced from fine grain steel Grade S355NH / 1.0539 according EN 10210-1 Structural fabrications in accordance with EN 1090, when supplied with 3.1 certification to EN 10204 containing product identification details. Information on regulated characteristics in accordance with EN10210 for: Elongation : Tensile Strength : Yield Strength : Impact Strength : Weldability : Durability : Dangerous Substances : No Performance Determined